

MULTI-WELL APPARATUS

ABSTRACT

A multi-well assembly according to one embodiment comprises a multi-well
5 block and a guide plate. The multi-well block defines a plurality of wells, with each
well having a fluid-impermeable bottom surface. The guide plate defines a plurality of
fluid passageways corresponding to the wells of the multi-well block. The guide plate
is configured such that, whenever the guide plate is registered with the multi-well block,
fluid communication is established between each well and an associated fluid
10 passageway. The guide plate enables iterative chemical or biological processes using
multiple multi-well blocks. A seal plate is configured to cut fluid communication
conferred by the guide plate via registration with the guide plate, or via registration with
the multi-well block (once the guide plate is removed). The seal plate allows iterative
chemical or biological processes within a single multi-well block.

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